

HANFORD SITE

Environmental Restoration Contract *Monthly Performance Report*

January 2004

Accelerating Cleanup ...



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

ENVIRONMENTAL RESTORATION EXECUTIVE SUMMARY

January 2004 Monthly Report

SAFETY:

During the period October 1, 2003 through January 31, 2004, the ERC experienced 9 first aid incidents, 1 lost/restricted incident, and 1 lost away injury, which equates to having **93% of our workdays injury free**. The ERC Team is actively preparing for the DOE-HQ on-site VPP evaluation expected in March 2004.

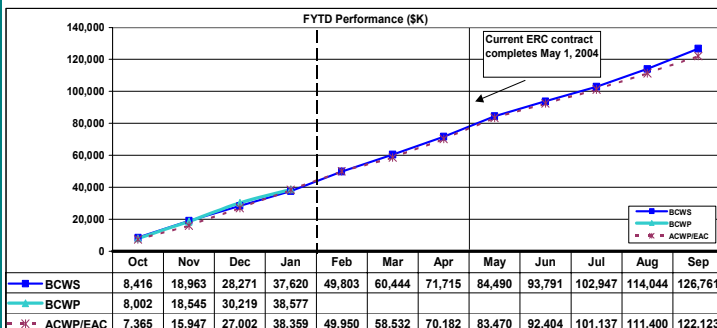
HIGHLIGHTS:

- Completed D Reactor SSE mobilization.
- Issued F Reactor S&M Plan; completing TPA M-93-11 more than 8 months ahead of schedule.
- Demolished above-grade portion of 1304-N steel tank.
- Revised/issued new RFP for N-1 crib remediation.
- Resolved contamination issues associated with KW Condensate Crib and resumed remediation.
- Initiated preparation of 100 F Area Remaining Sites design and RFP package development.
- Excavated 1,184,512 bank cubic yards (BCY) (85.5% complete) since ERDF Cells 5/6 expansion project began on October 7. Excavation halted for 6 days due to weather.
- Received RL approval on *Conceptual Site Model for 100 B/C Pilot Project Risk Assessment*, Draft B; was placed on Web site for stakeholder review.
- Completed 100/300 Area risk assessment rad surveys at 100 F shoreline; 85% at 100 D Area and 95% at 100 H Area. Commenced 300 Area rad surveys.

UPCOMING KEY ACTIVITIES:

- Complete H Reactor FSB excavation - estimate 3/15/04.
- Receive and evaluate N-1 crib remediation bids.
- Finalize 118-K-1 RFP by 2/23/04.
- Commence remediation at 116-KE-1 Condensate Crib.
- Complete ERDF Cells 5/6 excavation in February.
- Complete treatment/disposal of depleted uranium chips-in-oil drummed waste by end of May 2004.
- Complete assembly/review of B/C Pilot Study Round #1 sample data collection in February.
- Receive stakeholder comments on *Conceptual Site Model for 100 B/C Pilot Project Ecological Risk Assessment*.

PERFORMANCE:



GREEN TEXT = AHEAD OF SCHEDULE
RED TEXT = BEHIND SCHEDULE

- SV: \$957K; 2.5%. 300 Area regrade/backfill significantly ahead of schedule; treatment of uranium chips-in-oil drums ahead of schedule; offset by delayed start of 1304-N Dump Tank removal impacted by weather and contamination/fixative concerns. H Reactor FSB demolition also impacted by weather.
- CV: \$218K; 0.6%. Less support required by DR Ancillary facilities D&D, F Reactor, 100 Area S&M; offset by increased uranium chips-in-oil treatment cost.

EAC TRENDS:

FYTD: (\$4,638K)

Current Month: (\$4,895K)

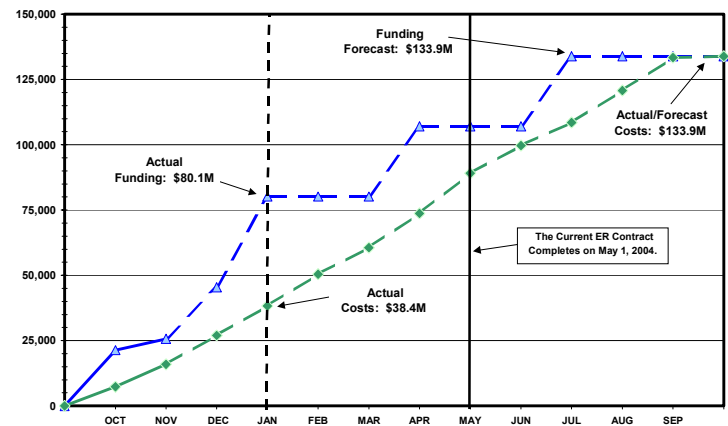
- FY03 rebill accrual and FY04 fee forecast reduction.
- IP2 container efficiency; 300 Area backfill/regrade S/C award lower than in-house estimate.

TPA MILESTONES:

Three TPA milestones are scheduled for completion during FY04:

- M-16-03H, Complete 300 Area regrade (due 6/30/04); *forecast 3/1/04*.
- M-16-26E, Complete 100 B/C pipeline excavation (due 9/30/04); *completed 11/5/03*.
- M-93-11, Complete F Reactor ISS (due 9/30/04); *completed 1/15/04*.

FUNDING:



PERFORMANCE INCENTIVES:

- SPI = 1.033 at contract completion.
- Remove a Gold Chart radiological facility by 3/1/04. *Above-grade portion demolished; technical issue with below-grade demolition.*
- Complete 10 Gold Chart release sites by 3/1/04. *On schedule.*
- Complete 300-FF-1/618-5 Burial Ground regrade by 3/1/04. *On schedule.*

ISSUES:

Weather impacting several activities.



Bechtel Hanford, Inc.
Environmental Restoration Contractor

ENVIRONMENTAL RESTORATION FACILITIES DECOMMISSIONING PROJECT

January 2004 Monthly Report

SAFETY:

FYTD: 2 first aid; 0 recordable; 0 lost workday; 0 skin contaminations
Current Month: 1 first aid (laceration)

HIGHLIGHTS:

H Reactor:

- Shipped PAS-1 cask with spent fuel elements from FSB to K Basin on January 23.
- Continued FSB demolition as weather permitted.

F Reactor:

- Issued S&M Plan on January 21; completed TPA M-93-11.

D Reactor:

- Completed SSE mobilization by subcontractor; pre-SSE demolition to start early February.

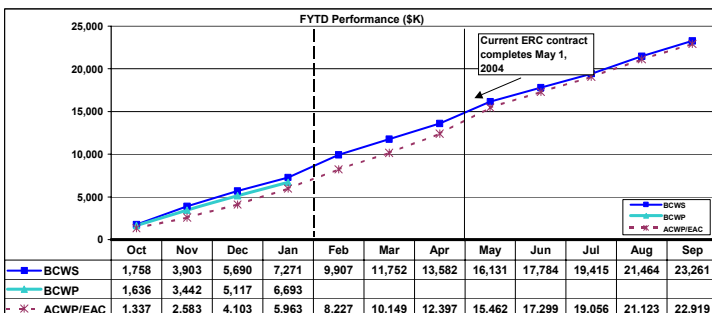
1304-N Emergency Dump Tank:

- Applied fixative (Rust Doctor) to inside of tank.
- Demolished above-grade portion of steel tank.
- Began loadout of demolition debris to ERDF.

UPCOMING KEY ACTIVITIES:

- Initiate SSE construction at D Reactor - 2/9/04.
- Issue RFP for H Reactor gas wing explosive demolition - 2/13/04.
- Issue RFP for H Reactor SSE design/construction - 2/19/04.
- Complete H Reactor FSB removal - estimate 3/12/04.

PERFORMANCE:



- SV:** (\$578K); (7.9%). Planned DWP completion date for 1304-N D&D not met (12/31/03) due to delayed start, contamination concerns/issues/fixative, weather impacts. H Reactor FSB and gas wing demolition impacted by inclement weather.
- CV:** \$730K; 10.9%. Fewer resources required for 100 Area S&M. Less project support/oversight required for DR ancillary facilities D&D and F Reactor.

EAC TRENDS:

FYTD: (\$342K)

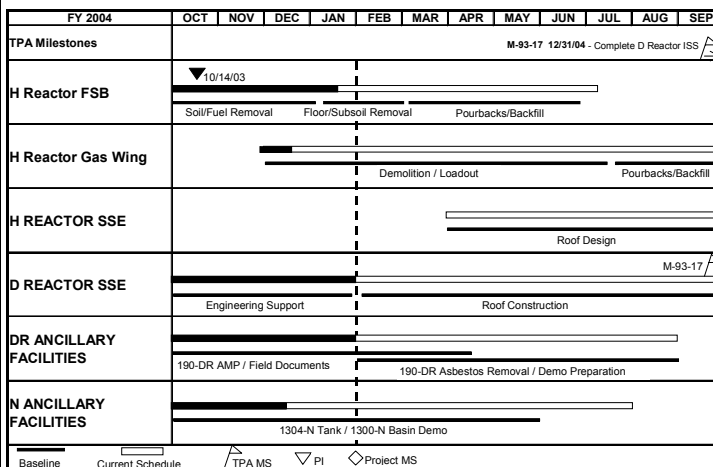
Current Month: \$283K

- H Reactor FSB demolition and loadout delayed due to weather.

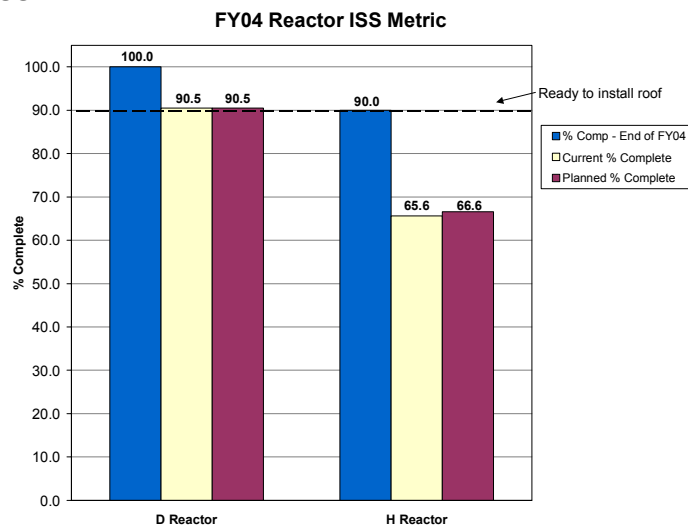
TPA MILESTONES:

- M-93-11, Complete F Reactor ISS (due 9/30/04); *completed 1/15/04, more than 8 months ahead of schedule. (Physical ISS work completed in August; regulators approved S&M Plan on 1/15/04.)*
- M-93-17, Complete D Reactor ISS (due 12/31/04); *forecast 9/30/04.*

SUMMARY SCHEDULE:



ISS METRIC:



PERFORMANCE INCENTIVES:

Remove a Gold Chart radiological facility by 3/1/04. *Demolished above-grade portion of 1304-N tank; began loadout to ERDF. Technical issues with below-grade demolition.*

ISSUES:

Abnormal weather conditions during January delayed H Reactor FSB work by 11.5 days; BCP prepared.

ENVIRONMENTAL RESTORATION REMEDIAL ACTION PROJECT

January 2004 Monthly Report

SAFETY:

FYTD: 3 first aids; 0 recordable; 0 lost workday cases
Current Month: None

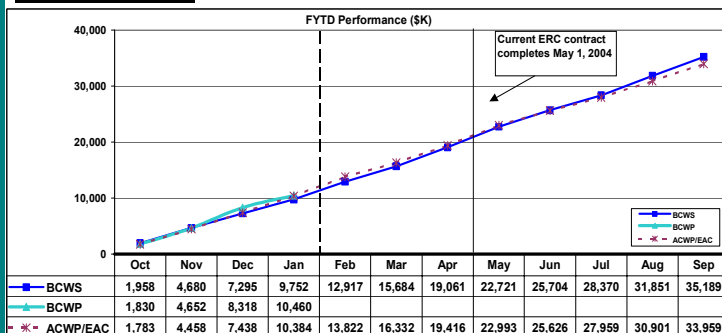
HIGHLIGHTS:

- Met 100% of RA VPP first quarter goals.
- Completed regrading of B/C stockpiles north of B Avenue; began moving stockpiles south of B Avenue.
- Continued B/C Burial Ground mobilization activities including equipment mob, trailers setup, resurfacing queue/pads, laydown area with crushed gravel, and posting signage.
- Revised/issued new RFP, amendments, and questions from bidders for N-1 crib remediation.
- Began preparation of bid documents for new IP2 containers in support of upcoming 100-NR-1 remediation.
- Continued remediation of 116-KE Retention Basin; working extended hours to recover weather-induced delays.
- Resolved contamination issues associated with KW Condensate Crib and resumed remediation.
- Issued design package for 118-K-1 Burial Ground remediation for internal review; comments due 2/4/04.
- Completed internal review drafts for 116-K-1 Crib, 100-B/C Pipelines South CVPs, and 100-B-11 and 118-B-9 Remaining Sites Verification Packages (RSVP).
- Initiated preparation of 100 F Area Remaining Sites design and RFP package development.
- Completed revisions to 100 Area Remaining Sites ESD incorporating RL and regulator comments; document is in review/approval process.
- Completed backfill/regrading of 618-4 and 618-5 Burial Grounds; submitted Draft A CVPs for regulator review.
- Completed drafts for 300-FF-2 RDR/RAWP, SAP, and ESD; all to be transmitted for regulator review and/or approval in early February.

UPCOMING KEY ACTIVITIES:

- B/C Burial Ground Readiness Assessment - 2/17/04.
- Initiate overburden removal at 118-B-1.
- Receive and evaluate N-1 crib remediation bids.
- Prepare requirements and pre-qualify bidders for procurement of new IP 2 containers.
- Finalize 118-K-1 RFP by 2/23/04.
- Commence remediation at 116-KE-1 Condensate Crib.
- Begin sampling 100-IU-2 and 100-IU-6 remaining sites in February.
- Submit BCPs for accelerated remediation, and design and assessment scope.
- Submit several draft A CVPs and RSVPs for regulator review.

PERFORMANCE:



GREEN TEXT = AHEAD OF SCHEDULE
RED TEXT = BEHIND SCHEDULE

- SV: \$708K; 7.3%. 300 Area regrade and backfill significantly ahead of schedule.
- CV: \$76K; 0.7%. 300-FF-1 backfill/regrade subcontract award less than in-house estimate; N Area final contract closeout less than planned. These efficiencies are significantly offset by F Area unplanned litigation costs, and by B/C burial ground acceleration and additional K area plume scope being performed under approved trends. Improved cost performance will be identified once the BCPs are approved.

EAC TRENDS:

FYTD: (\$1,230K)

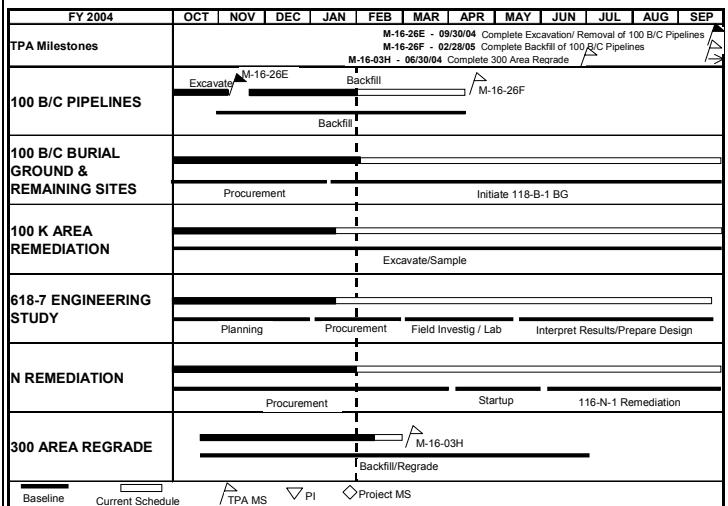
Current Month: (\$1,086K)

- IP2 container efficiency due to blending high and low dose material; 300 Area backfill/regrade S/C award lower than in-house estimate. The true current month trend of ~(\$2M) is offset by scope proceeding under approved trend and will be identified once BCPs are approved (see CV above).

TPA MILESTONES:

- M-16-03H, Complete 300-FF-1 and 618-5 Burial Ground regrade (due 6/30/04); *forecast 3/1/04.*
- M-16-26E, Complete excavation/removal of 100 B/C pipelines (due 9/30/04); *completed 11/5/03, nearly 11 months ahead of schedule.*
- M-16-26F, Complete backfill of 100 B/C pipelines (due 2/28/05); *forecast 4/7/04.*

SUMMARY SCHEDULE:



PERFORMANCE INCENTIVES:

- Complete 10 Gold Chart release sites by 3/1/04. *On schedule.*
- Complete 300-FF-1/618-5 Burial Ground regrade by 3/1/04. *On schedule.*

ISSUES:

None for this reporting period.



Bechtel Hanford, Inc.
Environmental Restoration Contractor

ENVIRONMENTAL RESTORATION WASTE OPERATIONS PROJECT

January 2004 Monthly Report

SAFETY:

FYTD: 4 first aids; 0 recordable; 0 lost workday cases
Current Month: 1 first aid (shoulder strain)

Occurrences:

- Turnover of dump portion of Articulated Dump Truck (ADT) on January 26 (BHI-ERDF-2004-0001).

HIGHLIGHTS:

- Received 24,221 tons of waste at ERDF during January; 140,779 tons during FY04; 4,658,544 tons of contaminated material have been disposed in ERDF since operations began in July 1996.
- Shut down ERDF for 7 days (out of 21 scheduled) due to snow/wind.
- Completed bench-scale tests for treatment of 183-H Solar Basin waste.
- Excavated 205,968 cubic yards at ERDF expansion in January; 1,184,512 BCY since inception; 200,788 BCY to go; 85.5% complete. Determined remaining soil to be excavated will be used for berm construction and operational cover after liners are installed (will avoid unnecessary double handling by subcontractor).
- Halted Cells 5/6 excavation for 6 days due to inclement weather.
- Suspended use of ADTs when an ADT rolled the dump bed portion (leaving cab in an upright position). No injuries or equipment damage resulted. Subcontractor preparing Corrective Action Plan for ERC approval.
- Completed ~60% of north berm construction; north/south berm construction planned to complete in February.
- Started preliminary infrastructure work on low voltage electrical system; planned to complete in February.
- 90-day test pad monitoring continues with good test results to date; anticipated completion on schedule for February 20.
- Established WM/T waste designation and profiling guidelines for the Conceptual Waste Form Model (CWFM) approach.
- While testing on storage / designation modules continues, development of Waste Management Information System (WMIS) Transportation portion has begun. Discussions with Oak Ridge developers are focusing on Transportation needs, including exploration of using radio frequency bar dates.
- Completed ERC Generator Verification/Certification (Jul-Dec 2003) for CY 2003 Annual Dangerous Waste Report (ADWR).

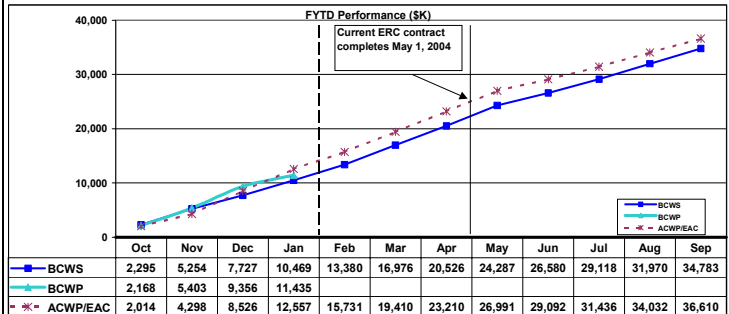
UPCOMING KEY ACTIVITIES:

- Complete treatment of depleted uranium chips-in-oil drummed waste (from 618-4 Burial Ground) that was sent to Oak Ridge in September. All treatment is expected to be complete by April. Treated waste will be returned to ERDF for disposal. (M-16-03I).
- Begin receiving drummed 183-H Solar Basin waste requiring treatment; full-scale treatment will continue for several months.
- Begin receiving waste from 116-KW-1 and 116-KW-2 (K Area accelerated scope) that is expected to contain elevated levels of carbon-14. Waste will be treated at ERDF to immobilize carbon-14 prior to disposal.
- Complete Cells 5/6 excavation (less material remaining to avoid double handling) in February.
- Begin Lysimeter installation and Admix production/placement in February.

TPA MILESTONES:

M-16-03I, Complete treatment of drummed waste from 618-4 Burial Ground (due TBD).

PERFORMANCE:



- SV: \$966K; 9.2%. Treatment of uranium chips-in-oil drums ahead of schedule; offset by temporary ERDF expansion delay.
- CV: (\$1,123K); (9.8%). Increased uranium chips-in-oil treatment cost.

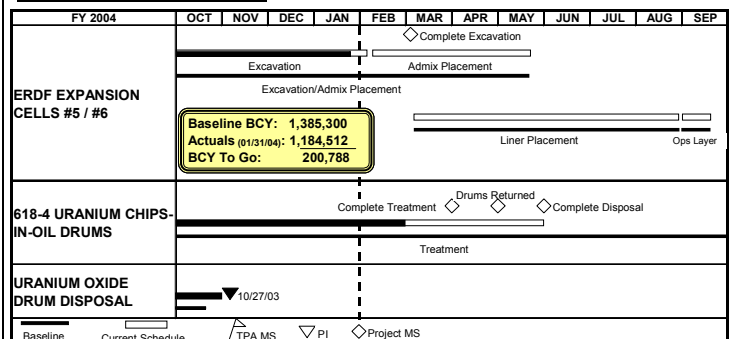
EAC TRENDS:

FYTD: \$1,828K

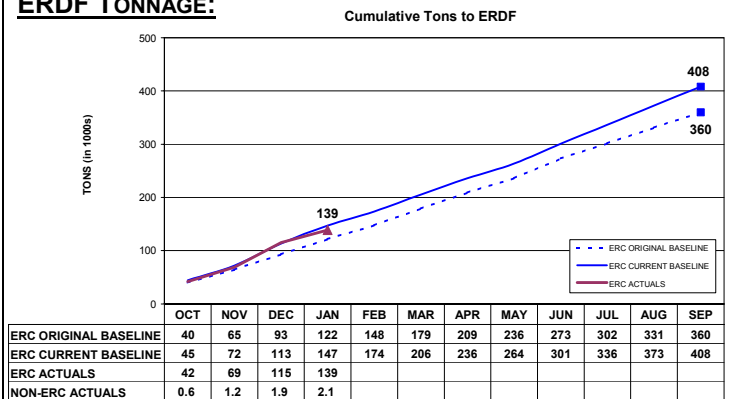
Current Month: (\$203K)

- Consolidated supervision; less functional support and material required.

SUMMARY SCHEDULE:



ERDF TONNAGE:



ISSUES:

- Non-ERC Hanford Waste to ERDF. Evaluate the acceptance of Hanford Site waste disposal.
- Inclement weather impacts in January.

ENVIRONMENTAL RESTORATION RISK ASSESSMENT AND SITE CLOSURE PROJECT

January 2004 Monthly Report

SAFETY:

No first aid, recordable, or lost workday cases experienced FYTD.

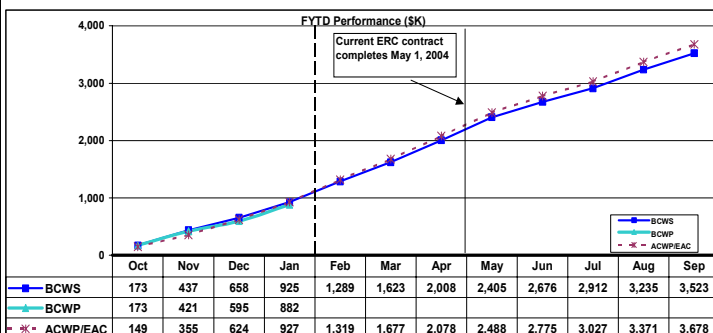
HIGHLIGHTS:

- Received RL approval on *Conceptual Site Model for 100 B/C Pilot Project Risk Assessment, Draft B*; was placed on Web site on January 26 for stakeholder review.
- Received information on culturally significant plants from Nez Perce and Wanapum Tribes for input into 100 B/C Pilot Project SAP.
- Completed 100/300 Area risk assessment rad surveys at 100 F shoreline; 85% at 100 D Area and 95% at 100 H Area.
- Commenced risk assessment rad surveys at 300 Area.
- Received RL approval on January 21, and finalized *Public Communication Plan for the 100 Area and 300 Area Component of the River Corridor Baseline Risk Assessment*, and *Trustee Communication Plan for the River Corridor Baseline Risk Assessment Project*.
- Established Web page for River Corridor Baseline Risk Assessment Project. Address is: <http://www.bhi-erc.com/projects/risk/risk.htm>.
- Initiated preparation of General Work Plan for the 100 Area and 300 Area component of the River Corridor baseline risk assessment.
- Completed consultation efforts with the Tribes on scenario and sampling development.
- Received RL concurrence on BCP for additional scope to establish a basis and assumptions document for the river component of the RCBRA project.

UPCOMING KEY ACTIVITIES:

- Receive stakeholder comments on *Conceptual Model for 100 B/C Pilot Project Ecological Risk Assessment* by February 6.
- Review 100 B/C sampling data collected.
- Complete assembly and review of B/C Pilot Study Round #1 sample data collection in February.
- Begin 100 B/C terrestrial and riparian sampling.
- Continue working with Tribes in developing Tribal scenarios.
- Meet with Tribes to finalize Tribal communication process.
- Meet with HAB February 1-2.
- Meet with Natural Resources Trustee Council February 11-12.
- Initiate planning for the next component of Columbia River risk assessment.
- Begin risk assessment rad surveys at 100 K in early February.

PERFORMANCE:



- SV:** (\$42K); (4.6%). Rad surveys, scheduled for January at 100 K, were delayed until February. Expect to recover schedule in February.
- CV:** (\$44K); (5.1%). Basis and Assumptions document completed over budget. Efficiencies are expected on second B&A document.

EAC TRENDS:

FYTD: \$154K

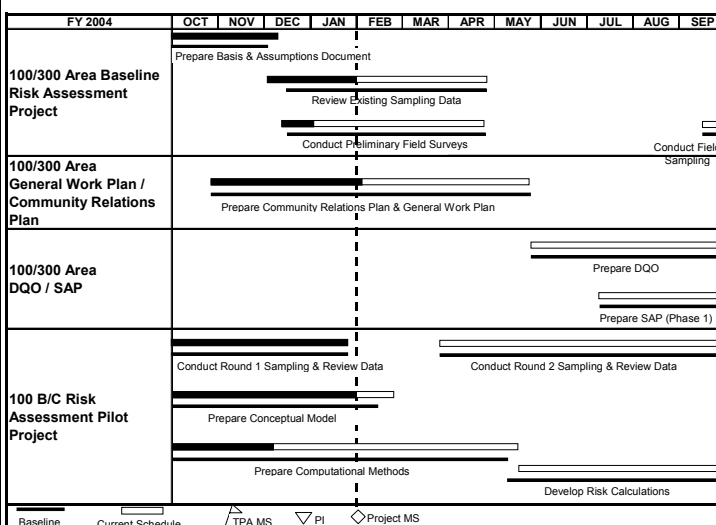
Current Month: (\$129K)

- Subcontract reduction; plotter equipment and supplies will not be purchased.

TPA MILESTONES:

No FY04 milestones.

SUMMARY SCHEDULE:



ISSUES:

None at this time.

ENVIRONMENTAL RESTORATION PROGRAM MANAGEMENT AND SUPPORT PROJECT

January 2004 Monthly Report

SAFETY:

No first aid, recordable, or lost workday cases experienced FYTD.

HIGHLIGHTS:

Safety and Health:

- Continued to prepare for a DOE-HQ on-site assessment of our VPP Application. While a specific schedule has not been established, the visit is expected to occur by mid- March.
- Awaiting results of the RL Safeguards and Security Audit held during December/January. The audit encompassed the full Safeguards and Security program including property protection, facilities security, badging, training, computer security, and program management.
- Prepared the RL-requested and specified ISMSD revision, changed the appropriate sections to the new standard, and updated the document to reflect current ERC practices.

Technical Services:

- Provided input to FH for the Annual 216 Discharge Permit Log of Significant Discharges on the Hanford Site. An evaluation of discharges determined that ERC had no significant discharges to report. A certification statement of discharges was provided to RL.
- Completed proposals for DOE EM Technology Solutions program. RL plans to submit the proposals to HQ in February for consideration.
- Distributed the FY04 ERC Science and Technology Plan within ERC.
- Completed the quality assurance/technical audit of the Eberline Services Richmond Laboratory. The laboratory was approved for continued use by ERC projects.

UPCOMING KEY ACTIVITIES:

Safety and Health:

- RL plans a follow-up assessment to A-03-SHQ-GENAREAS-002 for the second calendar quarter of 2004.

Technical Services:

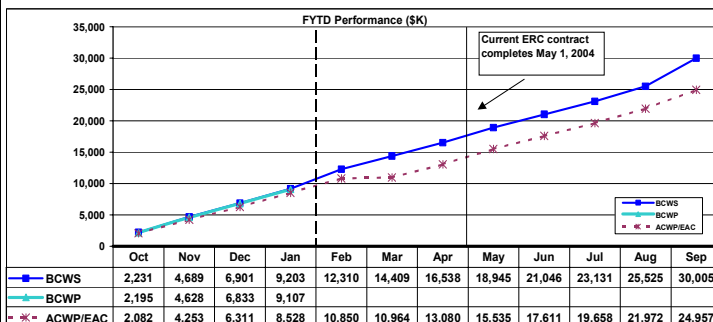
- Certification and submittal of Tier II Report to outside agencies by March 2004.
- Submittal of Hanford RCRA Permit Renewal Application to Ecology in March 2004.
- Audits of off-site analytical laboratories: DataChem, Cincinnati in March 2004, and Lionville Laboratory, Lionville in April 2004.

ASSESSMENTS:

FY 2004 ERC Assessment Data							
Assessments	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Scheduled	14	15	16	19	20	30	29
Scheduled / Performed	11	12	13	16			
Unscheduled / Performed	5	4	4	10			
Total Performed	16	16	17	26			

No significant findings during this reporting period.

PERFORMANCE:



- SV:** (\$96K); (1.0%). N/A
- CV:** \$579K; 6.4%.
- Safety and Health:**
 - RadCon scope continuing at minimum compliance level supported by existing resources.
- Technical Services:**
 - Underrun in regulatory support due to more direct project support.
- ARQP:**
 - Lost full-time manager and 3 staff. CATS support is continuing at minimum levels, ISMS metrics and quarterly trend activities not being updated and reported. Recovery plan is being implemented.

EAC TRENDS:

FYTD: (\$5,048K)

Current Month: (\$3,763K)

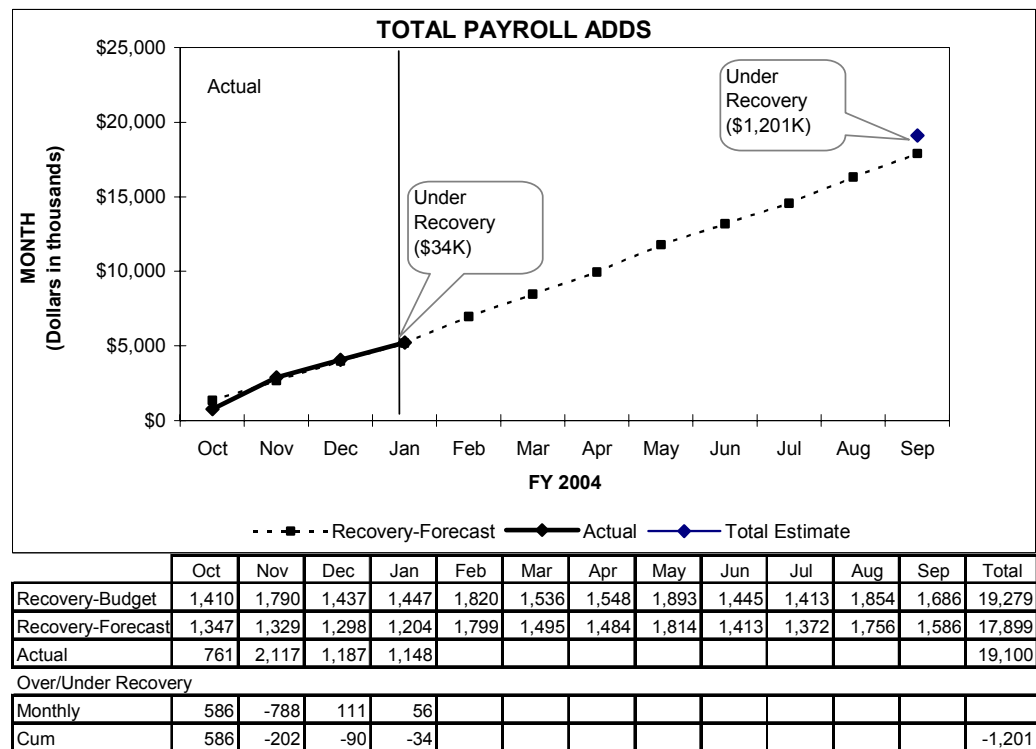
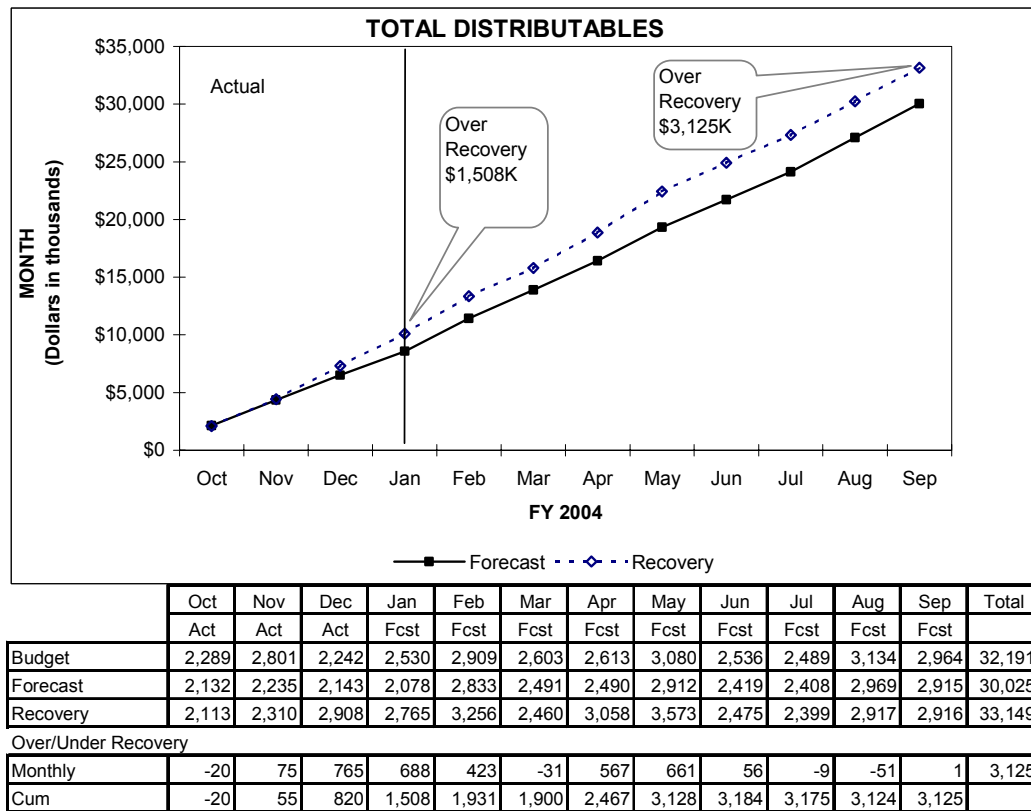
- FY03 rebill accrual and FY04 fee forecast reduction.

ISSUES:

The closeout verification check of the corrective actions for A-03-SHQ-GENAREAS-002 (RadCon surveys) found that while the program appeared compliant, there are several areas requiring strengthening to prevent recurrence. The extended corrective actions will be complete by March 15.

ENVIRONMENTAL RESTORATION RECOVERY OF DISTRIBUTABLE COST

January 2004 Monthly Report



Bechtel Hanford, Inc.
Environmental Restoration Contractor